

Title (en)

Methods of Improving Surface Roughness of an Environmental Barrier Coating and Components Comprising Environmental Barrier Coatings Having Improved Surface Roughness

Title (de)

Verfahren zur Verbesserung der Oberflächenrauheit einer Umgebungsschutzschicht und Komponenten mit Umgebungsschutzschichten mit verbesserter Oberflächenrauheit

Title (fr)

Procédés d'amélioration de la rugosité d'une surface d'un revêtement de barrière environnementale et composants comportant les revêtements de barrière environnementale dotés d'une rugosité de surface améliorée

Publication

**EP 2287136 B1 20200408 (EN)**

Application

**EP 10171525 A 20100730**

Priority

- US 23026209 P 20090731
- US 64234909 A 20091218

Abstract (en)

[origin: EP2287136A2] A method for improving surface roughness of an environmental barrier coating (12) comprising: providing a component (10) having a plasma sprayed environmental barrier coating; applying a slurry to the environmental barrier coating of the component, the slurry comprising a transition layer slurry or an outer layer slurry; drying the environmental barrier coating having the applied slurry; and sintering the component to produce a component having an improved surface roughness wherein the slurry comprises: water; a primary transition material, or a primary outer material; and at least one slurry sintering aid.

IPC 8 full level

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CPC (source: EP US)

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Cited by

EP3135866A1; CN106481370A; US10100656B2; FR3107905A1; CN115244217A; US11814325B2; WO2021176164A1

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